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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/825,495	25,495 04/15/2004		Joel Q. Xue	039199-9551-00	8560	
31058	7590	08/29/2005		EXAM	EXAMINER	
	BEST & FR	REIDEL, JI	REIDEL, JESSICA L			
	ILWAUKEE, WI 53202-4108		•	ART UNIT	PAPER NUMBER	
	·			3762		
				DATE MAN ED. 09/20/200		

Please find below and/or attached an Office communication concerning this application or proceeding. .

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	Application No.	Applicant(s)				
Office Action Summary	10/825,495	XUE, JOEL Q.				
Office Action Summary	Examiner	Art Unit				
	Jessica L. Reidel	3762				
The MAILING DATE of this communication appeariod for Reply	opears on the cover sheet w	th the correspondence address	}			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).		eply be timely filed by (30) days will be considered timely. THS from the mailing date of this community. ANDONED (35 U.S.C. § 133).	ication.			
Status						
1) ⊠ Responsive to communication(s) filed on <u>15 April 2004</u> . 2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-23 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-23 are subject to restriction and/or	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examiration is objected to by the Examiration is objected.	ccepted or b) objected to e drawing(s) be held in abeyar ction is required if the drawing	ice. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.1				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stag	e			
* See the attached detailed Office action for a lis	st of the certified copies not	received.				
Attachment(c)						
Attachment(s) 1) Notice of References Cited (PTO-892)	. A) \(\sum_ \) Intensions	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	5) Notice of I	nformal Patent Application (PTO-152)				

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-15 and 23, drawn to a method and device for determining alternans data of an ECG signal, classified in class 600, subclass 509.
 - II. Claims 16-18, drawn to a method for determining alternans data of an ECG signal, classified in class 600, subclass 509.
 - III. Claims 19-22, drawn to a method for determining alternans data of an ECG signal, classified in class 600, subclass 509.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I versus II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not include generating or processing a feature matrix and using principal component vectors to determine the alternans data. The combination also does not include performing statistical analysis to generate a confidence level. The subcombinations each have separate utility such as use by themselves to determine alternans data of an ECG.

- 3. Because these inventions are distinct for the reasons given above and the searches required for Group II or Group III are not required for Group I, restriction for examination purposes as indicated is proper.
- 4. Inventions II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not include performing statistical analysis to generate a confidence level. The subcombination has separate utility such as use by itself to determine alternans data of an ECG.
- 5. Because these inventions are distinct for the reasons given above and the search required for Group III is not required for Group II, restriction for examination purposes as indicated is proper.
- 6. A telephone call was made to Joeseph D. Kuborn on August 25, 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica L. Reidel whose telephone number is (571) 272-2129. The examiner can normally be reached on Mon-Thurs 7-4:30 and every other Friday 7-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571) 272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Supervisory Patent Examiner
Art Unit 3762

Jessica L. Reidel

